DEFENSE HEALTH INFORMATION MANAGEMENT SYSTEM



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CHAPTER 16. SEG ASSESSMENTS, RECOMMENDATIONS

16.1 ASSESSMENTS

After selecting a particular SEG, Assessment data can be viewed by expanding the Assessments menu option. Links for IH and Ergonomic Assessments appear.

16.1.1 IH Assessments

From the IH Assessment screen, users can define an Assessment, create a Workplace Monitoring Plan (WMP) (Formerly part of an IHIP (Army)) sampling task, perform an Assessment, and make Recommendations (**Figure 16-1**).

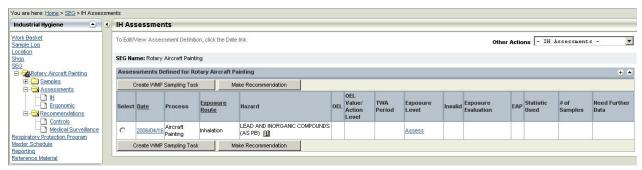


Figure 16-1. IH Assessments Page

By selecting the plus icon in the Assessments Defined for SEG section of Figure 16-1, the user can create an assessment definition (**Figure 16-2**). This step has to be performed before an assessment can be completed. This is a multi-step process – **Step 1** is to select the hazards to be defined. Hazards are grouped by exposure route (Inhalation, Contact, etc.).



Figure 16-2. Define IH Assessment (Step 1 of 3)

Step 2 is to select the processes (**Figure 16-3**).



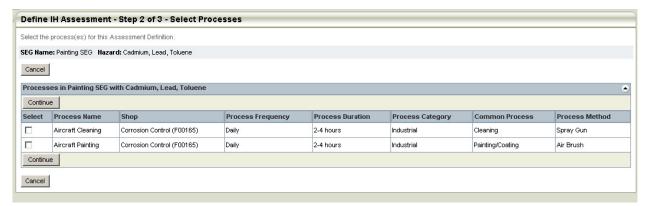


Figure 16-3. Define IH Assessment (Step 2 of 3)

Step 3 is to select the OEL (**Figure 16-4**).

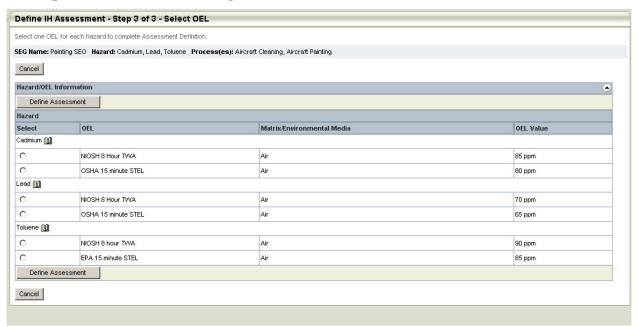


Figure 16-4. Define IH Assessment (Step 3 of 3)

The user then presses the Define Assessment button and the definition will appear on the IH Assessment Page (Figure 16-1).

After selecting an Assess link on the IH Assessments page (Figure 16-1), a screen similar to **Figure 16-5** will appear. This screen allows the user to select one or several samples on which to calculate statistics or perform a qualitative assessment.



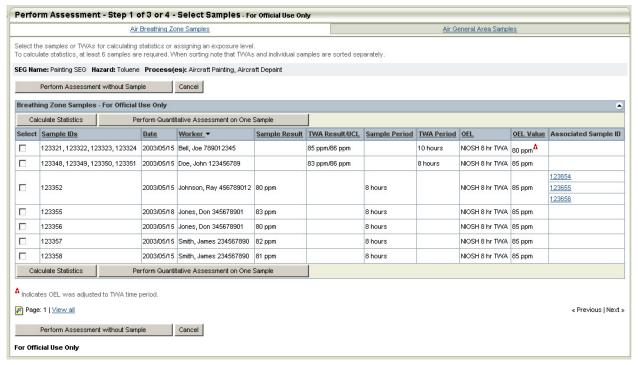


Figure 16-5. Perform Assessment (Step 1 of 3 or 4)

If the Calculate Statistics button is selected, **Figure 16-6** will appear, and the user can calculate normal or lognormal distribution statistics on the selected samples. The user can choose to calculate all the available statistics or selected statistics.

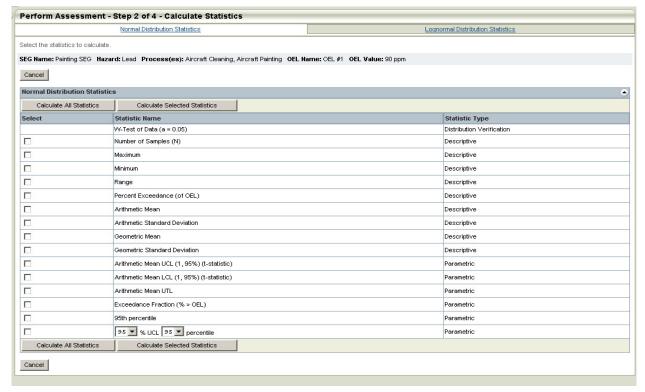


Figure 16-6. Perform Assessment (Step 2 of 4)



Step 3 displays the results of the statistic calculations. At this point, the user can select the statistic calculation to be assigned as the exposure level (**Figure 16-7**).

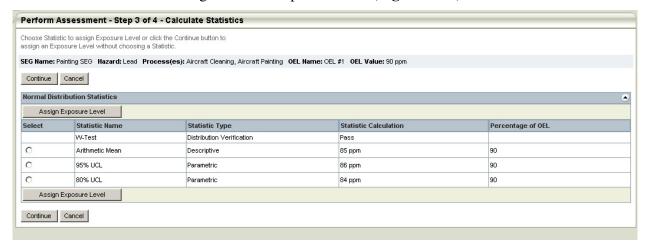


Figure 16-7. Perform Assessment (Step 3 of 4)

Step 4 displays the exposure level based on the earlier statistical calculations. At this point the user can change the results, document if the exposure is acceptable, unacceptable or if more information is needed (**Figure 16-8**).

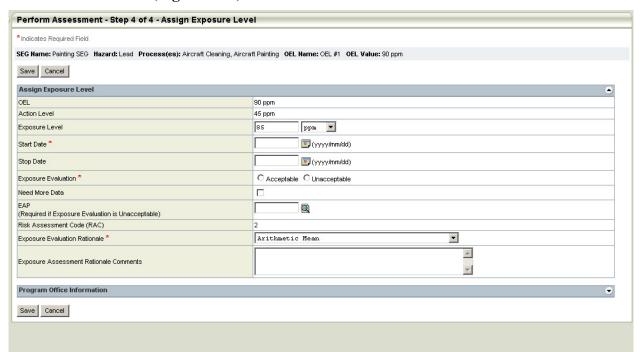


Figure 16-8. Perform Assessment (Step 4 of 4)

If the user marks the exposure as unacceptable, an exposure assessment priority (EAP) must be assigned. Exposure Assessment Priority (EAP) indicates the IH's priority for collecting information. Operational Risk Management (ORM) indicates risk from a commander's perspective. If the IH has collected sufficient information then the EAP would indicate a low priority even in situations where the ORM would indicate high risk. The DoD IH Working



Group approved the EAP calculations, but they have not approved calculations for ORM and DOEHRS-IH does not contain ORM calculations.

At present, the user will not be allowed to assign an Exposure Level when performing a qualitative assessment. When performing a quantitative assessment, assigning an exposure level will be mandatory. The allowed values for Exposure Assessment Rationale will be a function of

whether the assessment is quantitative or qualitative. If the assessment is qualitative then the Exposure Assessment Rationale will be fixed as Professional Judgment. All other selections for Exposure Assessment Rationale only apply if the assessment is quantitative. In particular, Extrapolate from Similar Processes and Modeling apply to quantitative assessments rather than qualitative assessments. The user will make selections based on the values from the following tables. By selecting the View Available Values icon, the first of three screens will appear.

Step 1 is to select a Health Effect Rating (HER) (**Figure 16-9**). The HER is independent of the exposure. For any particular hazard, the HER is a measure of what the health effect would be if the Exposure Level is equal to the OEL.

Step 2 of 3 is to select the Exposure Rating (ER). The ER looks at the frequency of exposure and the likelihood to exceed the OEL. The user will make selections based on the values from the following tables. By selecting the View Available Values icon, the first of three screens will appear (Figure 16-10).

Step 3 of 3 is to determine the Uncertainty Rating by selecting your confidence in existing controls and exposure characterization (**Figure 16-11**).

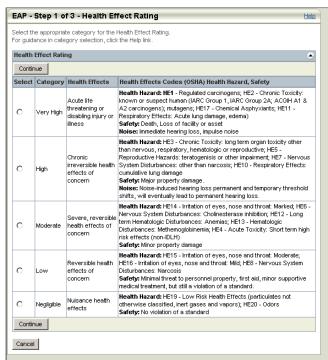


Figure 16-9. Health Effect Rating (Step 1 of 3)

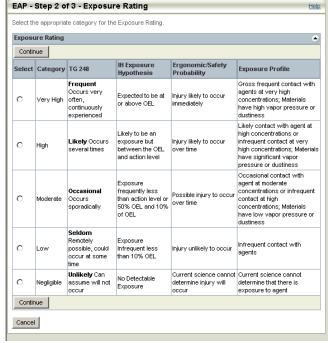


Figure 16-10. Exposure Rating (Step 2 of 3)



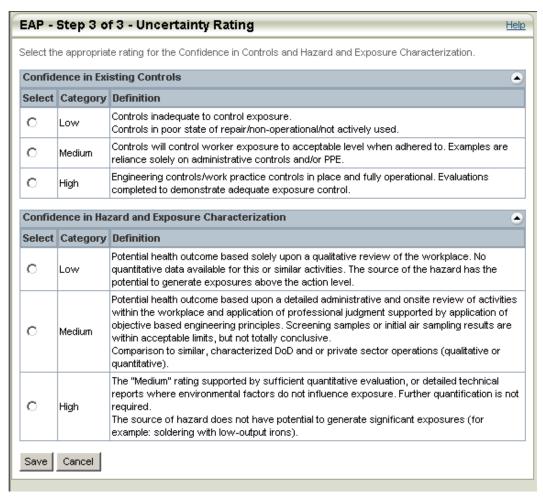
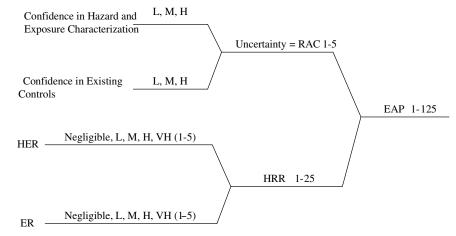


Figure 16-11. Uncertainty Rating (Step 3 of 3)

Based on the user selections from the figures above, the EAP will be scored on a scale of 1 to 125, with 1 meaning low priority and 125 meaning high priority, according to **Figure 16-12**.

A Risk Assessment Code (RAC) 1-5 should be assigned to each hazard that is assigned an EAP. The RAC is equated with the Uncertainty value that is



Negligible, L=Low, M=Medium, H=High, VH=Very High HER=Health Effect Rating, ER= Exposure Effect Rating, HRR=Health Risk Rating

Figure 16-12. EAP Calculation

computed as a function of the Confidence in Hazard and Exposure Characterization and the Confidence in Existing Controls as an intermediate value in the calculation of the EAP.



From the IH Assessments screen (Figure 16-1) the user can also make control and medical recommendations by selecting the Make Recommendation button (**Figure 16-13**). Data entered here will appear in the Recommendation section under the SEG menu tree. This is a multi-step process. Step one is to select the type of recommendation (control or medical). This functionality will be discussed further in the Recommendation section below.

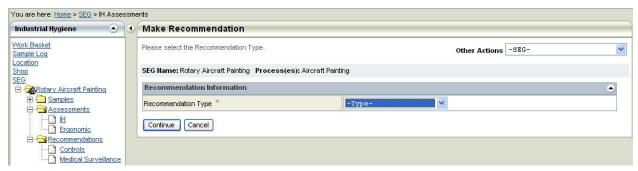


Figure 16-13. Make Recommendation

16.1.2 Ergonomic Assessments

From the Ergonomic Assessment screen (**Figure 16-14**), users can define an Assessment, create a Workplace Monitoring Plan (WMP) ergonomic evaluation task, perform an Assessment, and make Recommendations. The layout of the Ergonomic Assessments screen and functionality is very similar to the IH Assessments area described in the previous section.

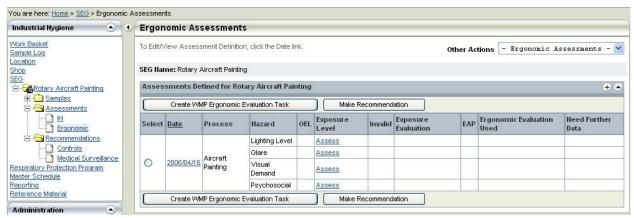


Figure 16-14. Ergonomic Assessments Page

Defining an Assessment is performed by selecting the plus icon or by selecting the Add Assessment Definition option from the Other Actions drop down list (**Figure 16-15**). The same three steps as previously described for an IH Assessment are performed. **Step 1** is to select the hazard. Hazards can be selected for industrial processes or administrative processes.

Note: The OEL's listed above are only for demonstration purposes.





Figure 16-15. Define Ergonomic Assessment (Step 1 of 3)

Step 2 is to select Processes (**Figure 16-16**).

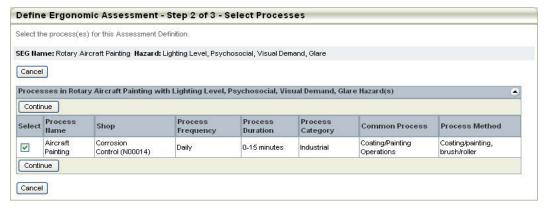


Figure 16-16. Define Ergonomic Assessment (Step 2 of 3)

Step 3 is to select the OEL and then press the Define Assessment (**Figure 16-17**).

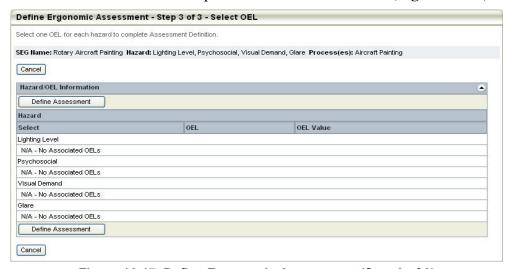


Figure 16-17. Define Ergonomic Assessment (Step 3 of 3)



The Assessment will then appear in Ergonomic Assessment Screen (**Figure 16-18**) and the user can perform an Assessment.

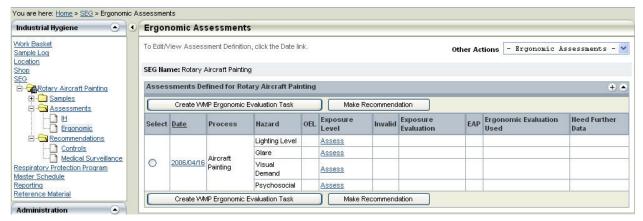


Figure 16-18. Ergonomic Assessments

From the Ergonomic Assessment Screen (Figure 16-18), the user can perform an assessment by selecting the Assess option. Again, this functionality is very similar to IH Assessments. The difference is that IH Assessments are performed against samples whereas Ergonomic Assessments are performed against Level 1 Ergonomic Evaluations. Level 1 Ergonomic Evaluations are initially created as a task under Master Schedule. Assuming the evaluation has been completed, the user can now perform an assessment on the results. **Step 1** is to select the Ergonomic Evaluation Type (**Figure 16-19**).

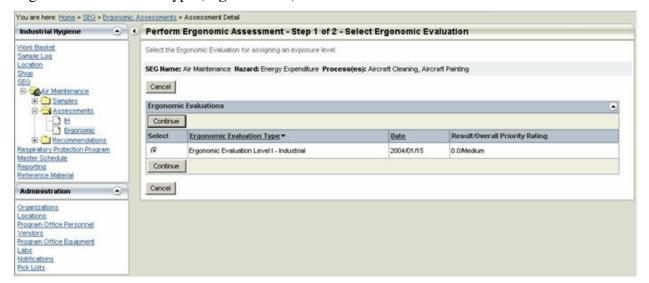


Figure 16-19. Perform Assessment (Step 1 of 2)



Step 2 is to assign the Exposure Level (Figure 16-20).

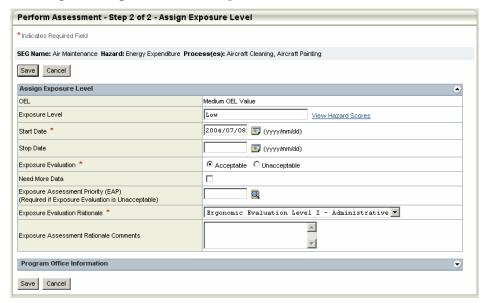
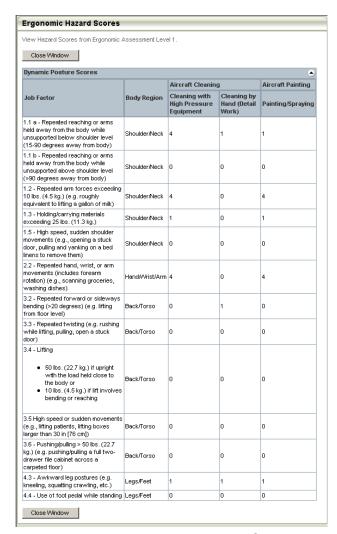


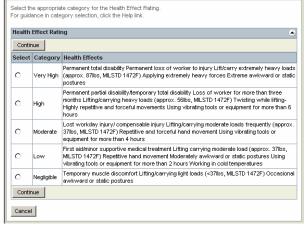
Figure 16-20. Perform Assessment (Step 2 of 2)

From the Assign Exposure Level screen (Figure 16-20), the user can view the Hazard Scores (**Figure 16-21**) recorded during the Level 1 Ergonomic Evaluation.

An Exposure Assessment Priority must also be assigned if the exposure is marked as unacceptable. By selecting the magnifying glass, the user will annotate a Health Effect Rating (**Figure 16-22**). This screen is slightly different from the Health Effect Rating in the IH Exposure Assessment screens. Step 2-Exposure Rating and Step 3-Uncertainty Rating screens that follow are the same as described in the IH Assessment area.







EAP - Step 1 of 3 - Health Effect Rating

Figure 16-21. Ergonomic Hazard Scores

Figure 16-22. Health Effect Rating



16.2 RECOMMENDATIONS

After selecting a particular SEG, the user can view recommendations or search for existing recommendations. By selecting the Recommendations menu option **Figure 16-23** will appear. The user can search for Control or Medical Surveillance recommendations.

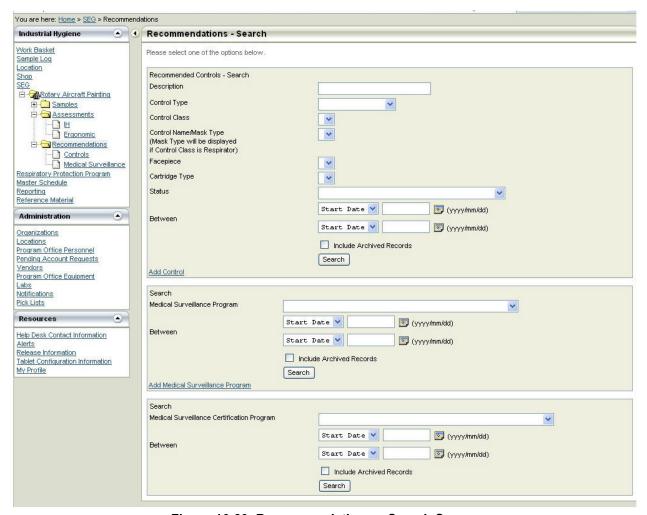


Figure 16-23. Recommendations – Search Screen

16.2.1 Control Recommendations

By expanding the Recommendations menu and then selecting the Controls option, **Figure 16-24** will appear with all control recommendations.

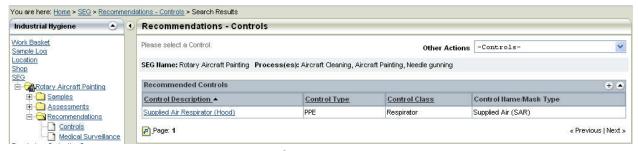


Figure 16-24. Control Recommendations



Engineering, Administrative, or PPE controls can be added by selecting the plus (+) icon or the Add a Recommended Control option from the Other Actions drop down list. **Figure 16-25** will appear. Controls are filtered by Control Type, Control Class, and Control Name/Mask Type. Once the Control Information is selected, press the Continue button.



Figure 16-25. Add Recommended Control

The Detail screen (**Figure 16-26**) will appear and the user can enter Recommended Control Information, select a Process, Input Graphics and load Program Office Information. Press the Continue button to move to the next screen.

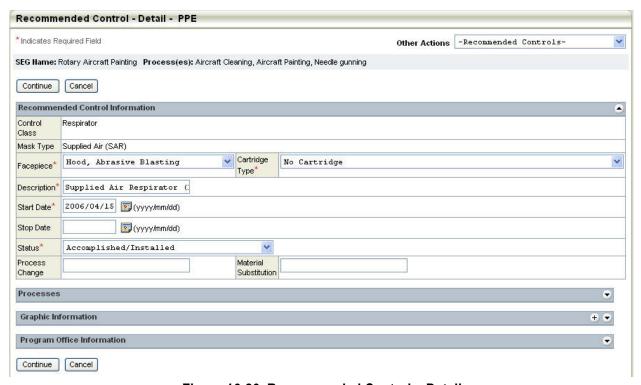


Figure 16-26. Recommended Control – Detail

The final step is to select Hazards Intended to Control and press the Save button (**Figure 16-27**. The control data will then appear in the main Recommendations – Control screen as shown in **Figure 16-28**.



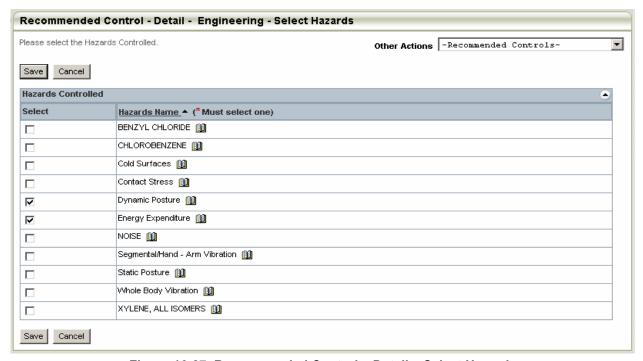


Figure 16-27. Recommended Control – Detail – Select Hazards



Figure 16-28. New Control in Recommendations – Controls List

16.2.2 Medical Surveillance Recommendations

When the user selects Recommendations - Medical Surveillance, **Figure 16-29** will appear with a list of medical recommendations. Medical surveillance recommendations should be based on the assessment of the SEG using the user's selected criterion to determine statistical validity (e.g., upper point estimate) of the exposure profile or at least from professional judgment.



Figure 16-29. Recommendations – Medical Surveillance



To document a new Medical Surveillance recommendation, select the plus (+) icon or the Add Medical Surveillance Program option from the Other Actions drop down list. **Figure 16-30** will appear. Select the whether or not the medical surveillance is for a certification program and press the Continue button.



Figure 16-30. Add Medical Surveillance Program

If yes is selected, a screen appears where job type can be selected. The system assumes the Medical Surveillance applies to all of the processes assigned to the SEG and the processes will appear at the top of the screen of **Figure 16-31**.



Figure 16-31. Medical Surveillance Certification Program – Detail (Without Processes)

Select the Medical Surveillance Certification Program category (**Figure 16-32**), enter a Start Date, and press the Save button. The recommendation will then appear in the main Recommendations-Medical screen.

If No is selected from Figure 16-30, the system allows the user to select the hazard and processes to associate the Medical Surveillance with ???.



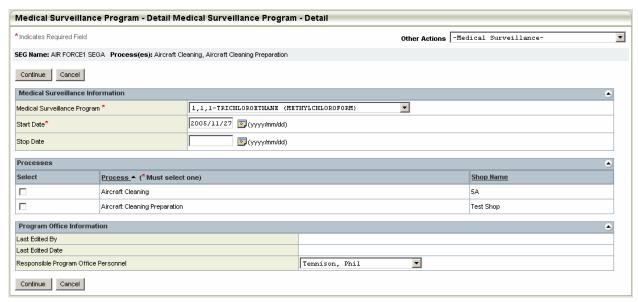


Figure 16-32. Medical Surveillance Certification Program – Detail (With Processes)

Select the Medical Surveillance Certification Program category, enter a Start Date, select associated processes, and press the Save button. The recommendation will then appear in the main Recommendations-Medical screen.